



R. C. ANDERSON, right, receives a commendatory letter for his development, "Diffusion Bonding of Beryllium." Jack Yaggi, department superintendent, Metallurgical Development, left, presents Anderson his \$1 letter . . . granting him a patent application.

Ridge Boat Club Acts To Clean Up Lake Litter

Are you a lakeshore litterer? Well, somebody is. Just ask Robert H. Bacon, Area Five Maintenance. Bob and other members of the Oak Ridge Boat Club have been devoting their Saturdays to picking up broken bottles, tin cans, and other debris along the shores of Melton Hill Lake.

The trash can be a hazard to the swimmer, skier, fisherman, boater or just the casual beachcomber. And since most of us spend a lot of time on the local lakes in the summer, it's to our advantage to keep it clean!

Clean-Ups Sponsored

The Boat Club is sponsoring Saturday clean-ups especially around the Oak Ridge Marina and beaches and shorelines along the Oak Ridge side of the lake. If you wish to join them, come on out Saturday morning. Just meet

the crowd at the Marina at 9 a.m. Your volunteer assistance will be of great benefit. The City of Oak Ridge is cooperating with the crews in hauling the trash away. Incidentally, Melton Hill is due to rise back to its normal level Saturday week, March 5, so time is of the essence.

Near-Miss Found

Crew members report picking up a jagged-edged bottle last weekend with a bare footprint alongside it. Another inch or two and some wader would have had a bad cut.

Pollution of the lake area with trash from the picnic can and does become a giant eyesore . . . besides being a dangerous hazard. With summer months coming on, and picnic, swimming, and skiing just around the corner . . . let's keep litter from the lake.



POSSIBLY ONE PICNIC contributed this much garbage to the Melton Hill beaches. Multiply this by a hundred more and you have a mountain of litter. Robert H. Bacon, Area Five Maintenance, is seen with broken glass, beer cans, and other trash his crew had picked up recently. The Oak Ridge Boat Club is sponsoring work-trips to clean up the summer debris.

Stores' Garland And Beckham Develop New Method For Storing Gas Cylinders

Two Stores men recently solved a long-time problem in the storage of compressed gas cylinders.

Due to the fluctuation of the quantities and different sizes of gas cylinders carried on the dock, stationary type chain hooks for securing the cylinders were not practical. The chain could not be tightened enough against the cylinders to be effective.

J. W. Garland, department supervisor, and C. E. Beckham, bulk materials foreman, decided they could come up with a solution . . . and did. They devised a type of sliding hook to move in a slot of unistrut channel which had been bolted to the compartment walls on the docks. This allows the hook to be moved into proper position at all times, regardless of cylinder quantities, for the chain to be drawn tightly against the cylinders securing them in place. A unistrut spring nut is used to fasten the hook in the channel. A slight left turn of the hook releases the nut sufficiently to allow it to slide easily. When the hook is in proper position for the chain to bind the cylinders, a slight right turn fastens the hook in place.

Some of the gas stored in the cylinders is under as much as 200 pounds pressure. Accidental bumping could cause the cylinders to be upended, causing a dangerous jar. The unistrut development has eliminated this hazard. The action not only corrected a hazardous storing situation, but also relieves a cumbersome handling situation.

Costs Saved, Too

Added to the ingenuity is a cost-saving angle too. Garland and Beckham scrounged most of the material from Secondhand Stores, picking up left-over material from other projects.

ACS To Hear Chemistry's Role In Birth Control

The Analytical Group of the East Tennessee Section of the American Chemical Society will meet Thursday, tomorrow, February 24. The meeting will begin at 8 p.m. in the ORINS Teachers' Training Building (next to the Holiday Inn). Dr. Herbert Warm, assistant director of clinical research, Ortho Research Foundation, will speak on "Chemical Approaches to Population Control."

The lecture should prove to be both interesting and informative and all ACS members are urged to attend. The interested public is also invited to attend the lecture.

SAFETY SCOREBOARD

The Y-12 Plant Has
Operated
Six Days Or
117,000 Man-Hours
Through February 21
Without A Disabling
Injury
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(Unofficial Estimate)
For Daily Report
On Accident-Free Hours

Creative thinking along these lines might well be considered the layman's approach to practical value engineering.

Ernie Bentley, safety engineer who coordinates efforts for the

Stores group, was highly complimentary toward the development. "Solving problems like this one helps eliminate accidents before they have a chance to happen," he stated.



JACK GARLAND AND C. E. BECKHAM buckle up their compressed gas tank storage development in the unistrut channel installed in the dock area. The adjustable chain can be moved to keep the tanks snug inside the chain area . . . eliminating the danger of their overturning.



NO MATTER WHAT THE SHAPE of the cylinders holding compressed gas . . . the unistrut chain keeps them all upright, for sure. Her several squat cylinders of acetylene are stored safely with the Garland-Beckham development. Many different kinds of compressed gases are used and stored in the Y-12 area.



G. F. NELSON DEMONSTRATES the old method of securing compressed gas tanks in the storage area. Note the swag in the chain where the tanks fail to fill up the vacancy. The new method keeps the chain taut against all the cylinders.



The Bulletin

Published Weekly For The
Y-12 Employees Of
UNION CARBIDE
CORPORATION



NUCLEAR DIVISION

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Has Beens Still Lead Basketeers

Y-12's Has Beens still maintain a clean slate in the Basketball League ... so do the Bombers and Fearless Five, both ORNL teams.

Last week's action started, as the Nats fell to the Bombers 90 to 52. The game started off fairly even ... until the third quarter when the Bombers started pulling out front with Roy Nabors putting 20 through the basket, and Elmer Lee scoring 18 big points. Homer Tucker led the Nats with 19 points ... Wayne Parsons scored 10.

The Fearless Five defeated the Y-12 Losers easily in game number two 66 to 28. For the winning FF team it was Bob Compton with 13 ... Roy Goetsch, nine. Gordon Edison scored nine for the losers ... Ed Madden, seven.

Kirksey Leads Again

Y-12's Has Beens waxed hot on the maple scoring practically at will in final action of the night ... downing the Isotopes 68 to 33. Bill Kirksey led teammates with 21 points ... Don Burton scored 15 ... Jim George, 13. Terry Motherhead led the losers with 13 points.

Wednesday's action began with a close game ... the Fungi edging by the Nats 40 to 38. Ed Bailiff fired 14 points to spark the winning team ... Wayne Parsons scored 13 for the losing squad.

Fearless Five Win

The Fearless Five returned to the floor in Wednesday's second game to down the Metals & Ceramics combo 56 to 51. Ray Cooper led the FF team with 19 ... Goetsch scored 12 ... Jim McCall, 10. Jim Atherton tallied 16 for the losing M&C team.

The ORNL Bombers lowered the boom on Y-12's Collegians Wednesday 45 to 36. Butch Armistead scored an even dozen for the winning team ... Bill Martin accounted for 19 of the Collegians' 36 points.

League standings follow:

Team	W	L
Has Beens, Y-12	6	0
Bombers, ORNL	5	0
Fearless Five, ORNL	4	0
Metals & Ceramics, ORNL	3	3
Fungi, ORNL	2	3
Nats, ORNL	2	4
Collegians, Y-12	1	3
Isotopes, K-25	0	4
Losers, Y-12	0	6

Technical's Valentine Dance Is Big Success

Technical Services folk report a very handsome crowd at Saturday, February 12's big party at the Oak Terrace.

Folks gathered, starting at 6 p.m. for the get-acquainted hour ... with dinner at 7:30 ... then dancing at 9 p.m. to the music of the Martiniques.

From the pictures next door it looks as if a nice party did happen!



THE CUBS, not as little as their name implies, are one of the long-time standing teams in the Classic League. Kneeling from left to right are Tom Watts and Lew Kovach. Standing are Captain Leo Hemphill, George Flack and H. L. Horton. Absent is George Mitchel.

Slim One Point Margin Separates Bumpers, Markers On Classic Alleys

The Markers moved to within spitting distance of the lead in the Classic Bowling League last week. They took four points from the Eightballs. The All Stars won four from the Cubs, and the Rippers won the same from the Smelters. The league-leaders, the Bumpers, won three at the expense of the Swingsters. Like scores went to the Rebels over the

Wasps, the Playboys over the Splinters, and the Screwballs over the Tigers. The Wolves and Has Beens split two.

J. W. Halsey, Bumpers, took a 241 scratch game ... Hubert Richards, Rippers, rolled a 260 handicap single. Halsey's series of 612 scratch, 660 handicap were high.

The Bumpers bowled best scratchwise, singles of 920, series of 2650 ... while the Playboys played high on handicap counting ... singles of 1050, and series of 2976.

League standings follow:

Team	W	-L
Bumpers	22	6
Markers	21	7
Tigers	16	12
Eightballs	15	13
Swingsters	15	13
Wolves	15	13
Has Beens	15	13
All Stars	15	13
Rebels	14	14
Rippers	14	14
Playboys	13	15
Cubs	12½	15½
Splinters	10	18
Wasps	10	18
Screwballs	9	19
Smelters	7½	20½

Tomorrow Is Deadline To Enter Bowling Race

Recreation reminds all that tomorrow, Thursday, February 24, is the final filing date for the big Y-12 Bowling Tournament set for the weekend of March 5, 6.

Any employee who has rolled at least 12 games in a sanctioned league this year is eligible to roll. Cost of the entry is \$2.50 per entry per man, or woman. All events competition is an additional 50 cents.

Bowling league secretaries have entry forms if you wish to enter in the team event, doubles, or whatever combination of these you wish. If you can't find your secretary, give Recreation a ring at 3-7109.

Untouchables Vs Reagents Monday In Bush Roll-Off

The Untouchables cinched the title for the last half of the Bush Bowling League's rolling last week. With this week's bowling, the six-team league finishes action ... with a roll-off next week between the Untouchables and the Reagents, who took the first-half by a mere half-point.

In what must have been history in last week's rolling ... all teams split two points with their opponents. The Untouchables vs. the FLUBS, the Reagents vs. the Outcasts and the Dry Hides vs. the Beavers.

Bill Smith, Dry Hides, paced singles in season highs, with 236 scratch, 268 handicap. Bill Cofer, Outcasts, cast series of 569 scratch, 665 handicap.

The Dry Hides posted an 890 in scratch singles ... the Reagents rolling 1016 in handicap count. The Reagents took series highs ... scratch of 2346 and handicap of 2899.

League standings follow:

Team	W	L
Untouchables	26	10
Reagents	21	15
Dry Hides	18	18
FLUBS	15	21
Beavers	14	22
Outcasts	14	22

Huddleston, Norris Lead Table Tennis

Roy Huddleston and A. J. Norris lead the two Table Tennis Leagues after last week's play. Huddleston downed Bill Maddux in the X League for five games. Other sweeps went to H. Mook over K. Bunzl, and W. D. Jones over E. O'Rourke. Loyd Wyatt won three from B. Bullock.

X League standings:

Player	W	L
R. L. Huddleston	22	3
L. E. Wyatt	20	5
W. B. Motley	14	6
W. D. Jones	16	9
H. Mook	13	12
B. Bullock	12	13
K. Bunzl	11	14
W. A. Maddux	11	14
F. W. Shull Jr.	1	24
E. O'Rourke	0	20

In the Y League V. R. R. Uppuluri defeated J. Lewin, A. J. Norris whipped F. Kertesz and Ed Gambill downed Kertesz ... all for five games. G. Moretto took three at the expense of A. J. Weinberger ... Ed Gambill won four from Weinberger ... and G. W. Brewer took four from Gamble.

Y League standings:

Player	W	L
A. J. Norris	16	4
G. W. Brewer	18	7
V. R. R. Uppuluri	18	7
E. F. Gambill	15	10
F. Kertesz	12	18
J. Lewin	10	15
A. J. Weinberger	8	12
G. F. Moretto	3	12
C. R. King	0	5
R. Pilloton	0	10

Beavers Keep Hi Volleyball Place

With only two opponents remaining in the season, the Y-12 Beavers still hang atop the Volleyball League. Last week they took three from the K-25 Instruments, 15-5, 15-7, and 15-8. The Instruments won one 15-5.

Other matches saw the ORNL Set-Ups take four from the Naughts, 15-3, 15-6, 15-6 and 15-3. The Neutrinos also won four from the Bat Boys, Y-12, 15-3, 15-6, 15-4, and 15-2. The ORNL Ecobums downed the Y-12 Eagles for three, 15-11, 15-4 and 15-6. The Eagles won one 15-10.

K-25's Mix-Ups defeated the

Sunflowers Tie C League-Leaders

With a three-point win over the Strikers, the Sunflowers moved into a tie for first place in C Bowling standings last week. The Badgers hung in there although they took a three-point loss at the hands of the Parbusters. The only four-point win of the night went to the Fireballs over the Rodders. Other three point wins were picked up by the Rounders past the Rollmasters, the Shud-A-Beens over the HiLifers and the Big Five past the Invalids.

Clyde Craven, Sunflowers, posted a 237 scratch game, 263 handicap game. His 552 scratch series was high also. Lonnie Ellison, Strikers, pulled a 633 series in handicap scoring from the bag.

The Sunflowers swept team honors all the way ... singles of 926 scratch, 1043 handicap ... series of 2658 and 3009.

League standings follow:

Team	W	L
Badgers	24	8
Sunflowers	24	8
Rounders	22	10
Strikers	17	15
Parbusters	17	15
Invalids	15	17
Fireballs	15	17
HiLifers	13	19
Rollmasters	13	19
Rodders	11	21
Shud-A-Beens	11	21
Big Five	10	22

Recreation



Sunday, February 27

PRACTICE SHOOT — Y-12 Skeet Tournament, 1 p.m. Oak Ridge Sportsmen's Association Range.

Monday, February 28

BOWLING: C League, 5:45 Bush League Roll-Off, 8 p.m. Ark Lanes.

PISTOL LEAGUE: 7:30 p.m., Anderson County Gun Club, Clinton.

TABLE TENNIS: 7 p.m. Wild Cats Den, Oak Ridge.

BASKETBALL: Beginning 6:30 p.m. Oak Ridge High School Gymnasium. Nats vs. Metals & Ceramics; Isotopes vs. Collegians; Has Beens vs. Bombers.

Tuesday, March 1

PHYSICAL FITNESS: 7:30 p.m. Oak Ridge High School Gymnasium.

Wednesday, March 2

BOWLING: Mixed League, 8 p.m., Ark Lanes.

BASKETBALL: Beginning 6:30 p.m. Jefferson Junior High School Gymnasium. Isotopes vs. Fearless Five; Losers vs. Bombers; The Fungi vs. Metals & Ceramics.

Thursday, March 3

BOWLING: Classic League, 5:45 p.m. Ark Lanes.

VOLLEYBALL: Beginning 6:30 p.m. Robertsville Junior High School Gymnasium. Court One: Yanks vs. Bat Boys; K-25 Instruments vs. Eagles; Beavers vs. Neutrinos; Court Two: Mix-Ups vs. Naughts; Old Men vs. Reactors; Ecobums vs. Set-Ups.

Saturday, March 5

Y-12 Bowling Tournament, Ark Lanes.

Sunday, March 6

Y-12 Bowling Tournament, Ark Lanes.

Y-12 Yanks for four straight, 15-2, 15-2, 15-6 and 15-6.

Team	W	L
Beavers, Y-12	34	2
Set-Ups, ORNL	31	5
Neutrinos, ORNL	29	7
Old Men, ORNL	25	11
Ecobums, ORNL	22	14
K-25 Instruments	21	15
Eagles, Y-12	20	16
Reactors, ORNL	14	22
Naughts, ORNL	10	26
Mix-Ups, K-25	7	29
Bat Boys, Y-12	2	34
Yanks, Y-12	1	35



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As February blends into March, more and more Y-12ers celebrate important landmarks with Union Carbide Corporation. Congratulations.

20 YEARS

Joel C. Thomason, Production Assay, February 25.

James S. Cole, Product Engineering, February 25.

Forrest B. Waldrop, Ceramics and Plastics Development, February 27.

Orion C. Lee, Area Five Maintenance, March 1.

15 YEARS

Clyde E. Alcorn, Guard Department, February 23.

Harry Davis, Chemical Services, February 26.

William T. Arrowood, Gage Certification Laboratory, February 26.

Johnnie George, Guard Department, February 26.

Ernest C. Rambo, Beta Two Forming, February 26.

John R. Belew, General Machine Shop, February 26.

William J. Williams, H-1 Foundry, February 26.

Thomas D. Tucker, Dispatching Department, February 26.

Toney V. Gable, Product Engineering, February 26.

Carl G. Brewster, Medical Department, February 26.

Carl H. Dorr, H-2 and F-Area Shops, February 26.

Leo E. Coling, General Machine Shop, February 26.

Max Whitley, 9766 Machine Shop, February 26.

Alice M. Joyce, Medical Department, February 28.

Arthur C. Harrington, Buildings, Grounds and Maintenance Shops, February 28.

William A. Wells, Arc Melting, February 28.

Clyde H. Beddingfield, Area Five Maintenance, February 28.

Charles E. Spradlin Sr., General Field Shops, March 1.

10 YEARS

Gaines Aldridge, Beta Four Forming, February 26.

Margaret K. Kirby, Product Engineering, February 27.

Horace W. Branson, Beta Four Forming, February 28.

Welfare, McNabb, Asmanes Hi Skeets

Fred Welfare, ORNL, won the last Skeet Tournament, fired on February 13. Fred's perfect score of 50 took all honors in the three-plant firing match. Y-12ers R. B. McNabb followed in second place and Charlie Asmanes in third place. McNabb fired a 49.116 handicap score; Asmanes a 48.901.

The next tournament will be held on Sunday, March 13. February 27 is a practice shoot of interested skeeters. Each tournament is a separate contest so new shooters may start at any time. Equipment and/or instructions will be available at the shoot. All Carbiders interested in shotgun shooting are invited to participate. The tournaments take place at the Oak Ridge Sportsmen's Association skeet fields . . . on the turnpike near the Country Club.

For further information contact Fred Welfare, extension 3-5962, or Charlie Asmanes, 3-7296.

Tournament Scores:

Firer	Scratch	H'Cap
R. A. Allstun, Y-12	40	45.412
C. Asmanes, Y-12	44	48.901
K. W. Bahler, K-25	42	44.440
W. E. Brundage, X-10	46	48.166
J. M. Case, Y-12	44	48.842
J. Jones, X-10	35	47.600
R. H. McNabb, Y-12	45	49.116
F. S. Patton, Y-12	46	48.358
F. G. Welfare, X-10	50	50.000
H. D. Willis, X-10	43	48.338



Katy Kutkost SEZ:

A hearty handshake is extended to E. J. Allan of the Purchasing Division. For many years Ed has waged a one-man crusade to get the best work glove value for the least cost. Every time Ed comes around with a huge smile and a large hello, you can be sure he either just got a raise or has a new type mitten in his briefcase. It is hard to tell which because Ed always carries a briefcase — he wants to be ready in case anyone passes out Gina Lollobrigida pictures.

Edward's smile was extra big last week when he read the IBM report on glove usage for 1965.

All Plants: \$142,291 vs. \$181,800 for 1964.

Y-12: 82,280 vs. 134,533 for 1964. \$52,000 Less!

A very good return for a co-operative effort by lots of people . . . especially the people who wear gloves.

A chair has been called headquarters for the hindquarters.

First Lost-Time Accident Occurs

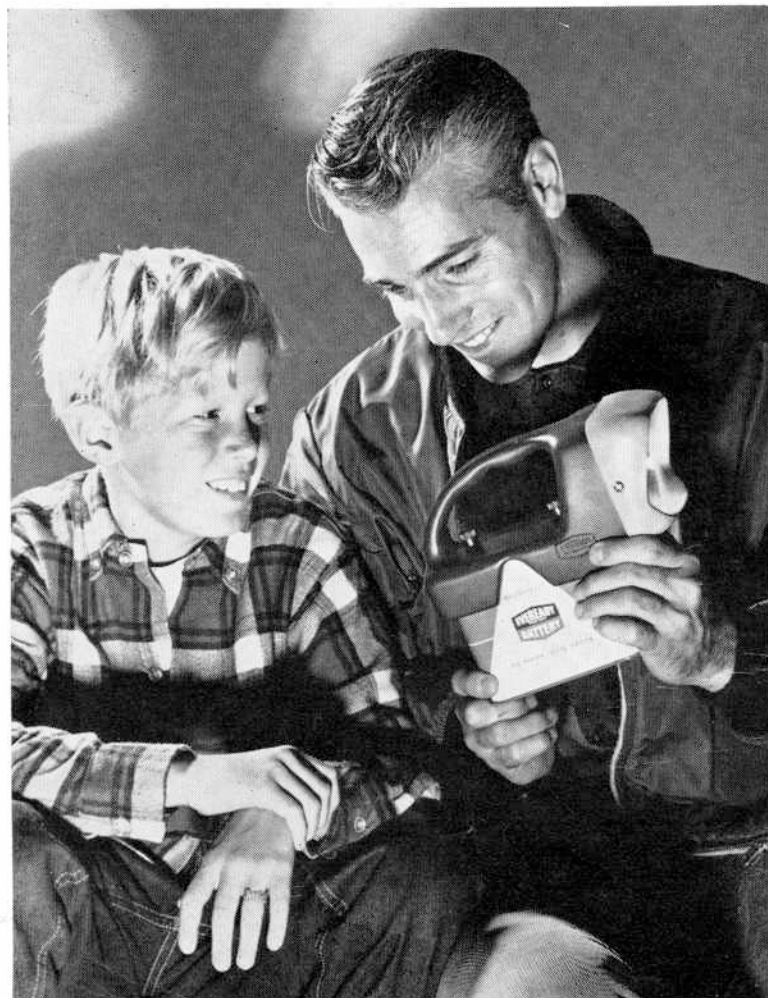
Y-12 suffered its first lost-time accident of the year last week. On Tuesday, February 15, an employee and co-worker were installing a belt between an exhaust fan motor and a gasoline powered auxiliary engine. While the employee was manually pulling and guiding the belt at the sheave of the fan motor, the belt moved forward, catching his little finger on his left hand between the belt and the sheave of the motor.

Part of the last joint of his little finger was removed surgically. The attending physician recommended the employee be off until Friday, February 18.

The accident broke the current string of accident-free days in Y-12 at 132, or approximately 3,606,000 man-hours. The last disabling injury occurred on October 5, 1965.

KINDNESS REMEMBERED

The J. T. Riddle family wishes to thank the Fire and Guard Departments for their kindness and sympathy shown during the illness and death of Mrs. Riddle . . . also for the floral offering.



EVEREADY'S All American lantern is now available in a heavy-duty model with unbreakable lens, non-tarnishing reflector and a weatherproof push-button switch. It is made of tough "Cordahide" polyethylene which resists oils, greases, most chemicals and high and low temperature extremes. The handle is a new contoured design, easy to grip. The All American is available in Y-12's company store.



ROGER AND KEITH PARKER, twin sons of Leon and Charlotte Parker, made a sleepy appearance at the Oak Ridge Hospital, January 11. They are the grandsons of F. B. Guttery, Chemical Services, (paternal) . . . and T. E. Lane, of the General Staff Industrial Relations Division (maternal).



Ride wanted from Beaver Creek Drive between Drive Gap Pike and Central Avenue, Knoxville, to North Portal, straight day. C. C. Chamberlain, plant phone 3-7798, home phone Knoxville 947-7076.

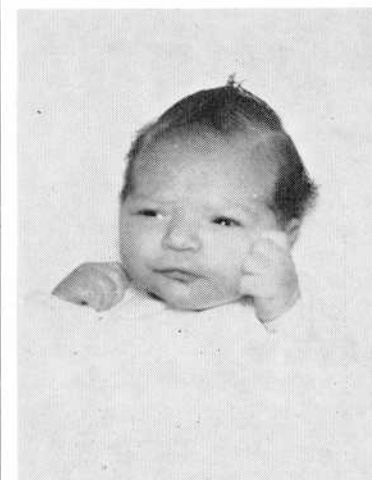
Will join car pool from West Magnolia Lane, near Jackson Square, Oak Ridge, to Central Portal, straight day. C. G. Bell, plant phone 3-5621, home phone Oak Ridge 483-9503.

Rider wanted from Washington Pike area, Valley View, Smithwood, Inskip vicinities, to East, North or Central Portal, straight day. W. L. McCormick, plant phone 3-7951, home phone Knoxville 522-5207.

Argonne's Gemmell Leads Physics Division Seminar

D. S. Gemmell, Argonne National Laboratory, will lead this week's Physics Division seminar. His subject will be "Blocking Effects Seen in the Passage of Charged Particles Through Single Crystals."

The seminar is set for Friday, February 25, at 3:15 p.m. in the East Auditorium of ORNL's 4500 building.



GREETING the New Year is little Kimberly Faye Loy, who was born January 4 at Baptist Hospital, Knoxville. Kim weighed six pounds, 10 ounces on arrival. She is the granddaughter of Franklin E. Cox, Machine Maintenance.

Instrument Society Meets Next Week

The Oak Ridge Section of the Instrument Society of America will hold its monthly meeting next Wednesday, March 2, at the Lake Terrace Inn, Oak Ridge. There will be a social hour starting at 5:45 p.m. with dinner at 6:30.

J. O. Blomeke, Union Carbide Corporation, ORNL, will speak on "Radioactive Waste Management."

Blomeke received his engineering degree in chemistry from the University of Texas and his doctorate from Georgia Institute of Technology. During the war, he was in Special Engineering Detachment at Clinton Laboratories (now ORNL). Since 1950, he has been employed at the Lab as a design engineer in Chemical Technology. Major work has been in development of processes for recovery of reactor fuels, and most recently in consideration of radioactive waste disposal.

New 'Sea-Scope' Debuts From Consumer Division

The Consumer Products Division of Union Carbide Corporation has introduced a new "Sea Scope" as part of its "Captain" swim products line. The new swim float is made of rugged polyethylene and is buoyant enough to support a 250-pound man (though weighing only 15 pounds itself). The scope makes it possible to explore the underwater depths without a snorkel tube. It has a built-in rubber face mask with a wide-angle lens through which the user can scan the marine life below. The Captain line equipment is available through the Company Stores, at North Portal.

Bell Discusses DXC-2 At Theronuclear Talk

P. R. Bell, et al, will discuss the "DCX-2" at this week's Theronuclear Division seminar.

The seminar is set for tomorrow, Thursday, February 24, in the TD Conference Room, Building 9201-2.

AMPLE QUALIFICATION

"No man undertakes a trade he has not learned, even the meanest; yet everyone thinks himself sufficiently qualified for the hardest of all trades — that of government." —Socrates.